SHARP®

MX-M503/M453/M363/M283

# ADVANCED MONOCHROME WORKGROUP DOCUMENT SYSTEMS

Precision engineered to help increase workflow efficiency and provide exceptional image quality, Sharp's MX Monochrome Series workgroup document systems take you to the next level in MFP performance and productivity. A large, **high resolution touch-screen color display** with **graphical menu navigation** and a **full-size retractable keyboard** to simplify data entry are just two of the many advanced features offered by these models. The powerful true multi-tasking controller enables MX Monochrome Series users to save time and money while producing professional documents in-house—**robust performance** that is also economical. Sharp's advanced device management makes it easy to **control usage and costs**. With the latest **Sharp OSA®** development platform, integration with network applications has never been easier. And, to safeguard the confidentiality of your intellectual property, Sharp's industry leading security suite is second to none.

## SHARP'S INNOVATIVE FEATURES

- A powerful **true multi-tasking** document system
- Large, **high resolution touch-screen** color display with graphical navigation (N models)
- Advanced second generation micro-fine toner technology offers crisp, **high quality images** page after page
- Standard 100-sheet duplex single pass document feeder with color **Scan²™** technology (N models)
- **1200 x 1200 dpi** printing provides clear, crisp images, even on jobs with fine detail (N models)
- Industry leading **ImageSEND™** function scans documents to USB devices, network folders, e-mail and more (N models)
- Standard PCL®6/PCL5e **printing system** with **direct print** function and available Postscript® 3™ and Windows® XPS options (N models)
- Supports Sharp's latest **award-winning** multi-level document and network **security suite**, which conforms to the new **IEEE-2600™- 2008 security standard** for MFP devices*
- **Environmentally-friendly design** offers low power consumption, long-life parts and is supported by Sharp's toner recycling program

*Some features may require optional equipment.*

**Award-winning Retractable Keyboard Offers Added Convenience**
For workgroups that perform a significant amount of data entry, the MX Monochrome Series document systems include a standard retractable keyboard (N models). Designed to simplify e-mail address and subject line entries, as well as repetitive scanning tasks and user authentication, the built-in keyboard offers users a familiar ergonomic interface.

**The Flexibility and Performance You Need**
With a large 8.5" (diagonally measured) **high-resolution touch-screen color display** (N models) and a powerful true **multi-tasking controller**, the MX-M503/M453/M363/M283 workgroup document systems can help elevate your office productivity to the next level.

**Designed with a Strong Commitment to Protecting the Environment**
The MX Monochrome Series document systems utilize Sharp's second generation micro-fine toner technology, which offers a lower consumption rate than conventional toners. This also results in less packaging material and longer replacement intervals. Additionally, all Sharp supplies are packaged using fully recyclable materials.

**Reliability Your Business Can Depend On**
Sharp's MX Monochrome workgroup document systems deliver professional performance and optimal productivity to satisfy your daily production needs. Copy/print **speeds up 50 ppm** help you to meet project deadlines with time to spare. The flexible paper handling system can feed up to 110 lb index stock through the paper trays. With available on-line paper capacity of up to 5,600 sheets, the MX Monochrome Series is ready when you are.

**24/7 Training with My Sharp**
Managing all of the advanced features of your Sharp product is simple and easy. Ask your Authorized Sharp Dealer about **My Sharp**. This dedicated customer training website is customized to your MX-M503/M453/M363/M283 and allows you to locate resources and find information specific to your configuration, truly helping you maximize your investment.

# MX-M503/M453/M363/M283 SPECIFICATIONS

## Main Specifications

| | |
|---|---|
| MX-M503N/M453N/ M363N/M283N: | Includes 8.5" Color Display, Standard Copying, PCL6 Network Printing, Network Color Scanning, Document Filing, 100-sheet DSPF (except MX-M283N), Auto Duplex, 2 x 500-sheet Paper drawers, 100-sheet Bypass tray & 80GB Hard Drive. |
| MX-M503U/M453U/ M363U: | Includes 8.1" Mono Display, Standard Copying, 100-Sheet RSPF, Auto Duplex, 2 x 500-sheet paper drawers, 100-sheet Bypass tray |
| Type | Multi-Function digital document system |
| Functions | Copy, print, network print, network scan, document filing and fax[2] |
| Copy System | Dry electrostatic transfer/Dual component developer/Magnetic brush development/OPC drums/Heat Roller fusing/Xenon lamp exposure |
| Originals | Sheets and bound documents |
| Max Original Size | 11" x 17" |
| Copy Size | Min. 5 ½" x 8 ½", Max. 11 "x 17" |
| Copy Speed | MX-M503N/U 50 ppm; MX-M453N/U 45 ppm; MX-M363N/U 36 ppm; MX-M283N 28 ppm (8 ½" x 11") |
| Multiple Copy | Max. 999 copies |

| First Copy Time (Seconds)[3] | MX-M503 | MX-M453 | MX-M363 | MX-M283 |
|---|---|---|---|---|
| Platen Glass | 3.9 sec | 3.9 sec | 4.6 sec | 4.6 sec |
| RSPF | 9.3 sec | 9.3 sec | 10.1 sec | 10.1 sec |
| DSPF | 8.8 sec | 8.8 sec | 9.5 sec | — |

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| Warm Up Time | 20 Seconds or less[3] |
| Magnification | 25% to 400% in 1% increments (RSPF/DSPF 25%-200%) |
| Original Feed | 100-Sheet RSPF: MX-M503U/M453U/M363U/M283N<br>100-Sheet DSPF: MX-M503N/M453N/M363N |
| Scan Speed | RSPF Copy: Up to 50 IPM @ 600 x 400 dpi; 36 IPM @ 600 x 600 dpi / DSPF Copy: Up to 70 IPM @ 600 x 300 dpi.<br>RSPF Scan: Up to 50 IPM @ 200 x 200 dpi / DSPF Scan: Up to 70 IPM @ 200 x 200 dpi. |
| Original Sizes | 5 ½" x 8 ½", 8 ½" x 11", 8 ½" x 11" R, 8 ½" x 14", 11" x 17" |
| Paper Feed System | Standard: (2) 500-sheet drawers (letter/legal/ledger/statement) and 100-sheet bypass tray (letter/legal/ledger/statement/envelope).<br>Optional: (1) 500-sheet paper drawer (letter/legal/ledger/statement size) or (2) 500-sheet paper drawers (letter/legal/ledger/statement size) and 3500-sheet large capacity tray (letter size). |
| Paper Types | Paper drawers/Bypass tray: 16 lb. bond -110 lb. index; other paper types include plain, pre-printed, recycled, pre-punched, letterhead and color paper.<br>Bypass tray also supports: 13-16 lb. bond (thin paper), 20-24 lb. bond (Monarch/Com-10 envelope), tab paper (letter size only); other types include label paper and OHP film.<br>Large capacity tray: 16-28 lb. bond. |
| Duplexing | Standard automatic duplex copying and printing |
| CPU | MX-M503/M453: 667 MHZ, MX-M363/M283: 533 MHZ |
| Interface | RJ-45 Ethernet (10/100/1000Base-T), USB 2.0 host/device |
| Memory | Copy: 640MB (320MB U models); Print/scan: 1GB |
| Hard Disk Drive | 80GB; 38GB for document filing system (N models) |
| Copy Resolution | Scan: B&W/color: 600 dpi; Copy Output: B&W: 1200 dpi (N models) |
| Exposure Control | Modes: Automatic Text, Text/Photo, Text/Printed-Photo, Printed-Photo, Photo, Map. Settings: auto or 9 step manual. |
| Halftone | 256 gradations/2 levels (monochrome) |
| Copy Features | Scan-Once Print-Many, electronic sorting, offset-stacking, Auto Paper Sensing (APS), Auto Magnification Sensing (AMS), auto tray switching, rotation copy, reserve copy, tandem copy, book copy, margin shift, tab-paper insertion, edge erase, center erase, dual page copy, cover pages, insert pages, OHP insertion, job build, card shot, multi-page enlargement, reverse image, black-white reversal, centering, proof copy, 2-in-1/4-in1, pamphlet, photo repeat, document filing, account management, job programs, date/character/page stamp. |
| Account Control | Up to 1000 users. Supports user-number authentication (on device), login name/password (on device) or login name/password (on device via LDAP server) for Copy, Print, Scan, Fax and document management. |
| Output Tray Capacity | Main output tray (top) 400 sheets (face down); optional exit tray (right side) 100 sheets (face down) |
| Firmware | Flash ROM with local (USB) and network update capability. |
| Configuration Method | Web-based management system with user/administrator level login security, cloning (1 to N) with PAU and remote front panel access |
| Service/Maintanence | Remote front panel and remote service logs |
| Power | AC 100-127 VAC, 60Hz, 12 Amps |
| Power consumption | All models Approx. 1.44kW |
| Weight | All models Approx. 210 lbs. |
| Dimensions | All models Approx. 25 ½" (w) x 27 ½" (d) x 38" (h) |

## Network Printing System (standard on N models)

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|---|---|
| PDL | PCL® 6/PCL5e compatible, Optional Postscript®3™, optional XPS |
| Resolution | 1200 dpi x 1200 dpi (N models), 600 dpi x 600 dpi (U models) |
| Print Speed | 28/36/45/50 pages per minute depending on model (8½"x 11") |
| Print Drivers | Windows® 98, Windows Me, Windows NT® 4 (with SP5 or later), Windows 2000, Windows Server® 2003, Windows Server 2008, Windows XP, Windows XP x64, Windows Server 2003 x64, Windows Server 2008 x64, Windows Vista™, Windows Vista x64, MAC OS®, 9.2.2, OS-X (including 10.2.8, 10.3.9, 10.4.11, 10.5-10.5.5), all MAC PPD, UNIX, Linux.[1] |
| Features | Continuous printing, duplex printing, pamphlet printing, N-up printing, image rotation, different cover page/last page, transparency inserts, tab printing, carbon copy print mode, fit-to-page, poster print, margin shift, mirror image, watermarks, overlay, confidential print, confidential batch print, print hold, proof print, bypass printing, job priority printing, print job control, tandem printing and direct printing[1] |
| Direct Printing | File Types: TIFF, JPEG, PCL, PRN, TXT, PDF, Encrypted PDF, High Compression PDF, Postscript and XPS[2] Methods: FTP, Web page, E-mail and USB memory |
| Resident Fonts | 80 outline fonts |
| Interface | RJ-45 Ethernet 10/100/1000 Base-T |
| Network Environments | Windows 98/ME, NT 4.0, XP, 2003/2008 Server, Vista, Novell® Netware® 3x to 6x, MAC OS 9, OSX 10 to 10.5.6), Sun® OS 4.1x, Solaris® 2x, UNIX®, Linux®, SAP, AS400, Citrix® (Metaframe, Presentation Server 4, 4.5) and Windows Terminal Services. |
| Network Protocols | TCP/IP (IPv4, IPv6, IPSEC) SSL (HTTP, IPP, FTP), SNMPv3, 802.1x for Windows and UNIX. LPD and LPR for UNIX. IPX/SPX® (Novell environments). EtherTalk® and NetBEUI. AppleTalk® (Macintosh®). |
| Printing Protocols | LPR, IPP, IPPS, PAP, Raw TCP (port 9100), FTP and Novell Pserver/Rprinter |
| Network Security | IP/Mac address filtering, protocol filtering, port management, user authentication and document administration. |
| Security Standards | IEEE-2600-2008, DoD (NSTISSP) #11, DoD 8500.2, DoD (DISA)[1] |

## Network Scanning System (standard on N models)

| | |
|---|---|
| Max Original Size | 11" x 17" |
| Optical Resolution | 600 dpi |
| Output Modes | 600 dpi, 400 dpi, 300 dpi, 200 dpi, 100 dpi |
| Scan Modes | Color, monochrome, grayscale |
| Image Formats | Monochrome: TIFF, PDF, Encrypted PDF, XPS[1]<br>Color (N models only): Grayscale, Color TIFF, JPG, PDF, Encrypted PDF, High Compression PDF,[2] XPS[2] |
| Image Compression | Monochrome Scanning: Uncompressed, G3 (MH), G4 (MR/MMR)<br>Color/Grayscale (N models only): JPG (high, medium, low), High Compression PDF[1], Internet FAX mode: MH/MMR (option) |
| Scan Destinations | E-mail, Desktop, FTP, Folder (SMB), USB, Internet/G3 fax (options) |
| One-touch Dial | Up to 1000 (combined scan destinations) |
| Group Destinations | Up to 500 |
| Programs | Up to 48 (combined) |
| Max. Jobs in Memory | Up to 94 (N models), up to 47 (U models) |
| Network Protocols | TCP/IP, SSL (HTTP, SMTP, LDAP, FTP, POP3), SMB, ESMTP, 802.1x |
| Network Security | E-mail server user authentication for LDAP and Active Directory |
| Software | Sharpdesk® document management software (1 user license) |
| Sharp OSA Platform | Application Communication Module (MX-AMX2) Standard |

## B&W Super G3 Fax Kit (option)

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|---|---|
| Transmission Mode | Super G3, G3 |
| Modem Speed | 33.6 KBPS[3] |
| Compression | JBIG, MMR, MR, MH |
| Scanning Method | Sheet fed simplex or duplex or book |
| TX Resolution | 400 dpi (max.) |
| Transmit Speed | Approximately 2 Seconds with Super G3/JBIG[4] |
| Auto Dialing | Up to 1000 (combined scan destinations) |
| Group Dial | Up to 500 |
| Inbound Routing | Forwards received fax data to E-mail |
| Long length Originals | Up to 31.5" (for transmission) |
| Programs | Up to 48 (combined) |
| Memory | 8 (exclusive) |
| Halftone | 256 levels |
| Features | Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, anti-junk fax, staple received faxes, secure fax release, out of paper reception, auto redial, 2-in-1 reception, duplex reception TX reports, and PC fax. |

## Inner Finisher (option)

| | |
|---|---|
| Type | Built-in finisher (hole-punch unit option) |
| Output Capacity | 500 sheets (letter/statement) or 250 sheets (ledger/legal size) |
| Stapling Media | Plain paper, (letter, legal, or ledger size) |
| Stapling Positions | 1 front, 1 rear, or both |
| Power Source | Supplied from main unit |
| Stapling | Up to 50 sheets (letter size) or 30 sheets (legal, ledger or mixed) |
| Stapled Sets | 30 bundles or 500 sheets (letter or statement size) or 30 bundles or 250 sheets (legal or ledger size) |
| Hole Punching | Optional hole punch unit MX-PNX1B (2 holes/3 holes) |
| Weight | Approx: 28.7 lbs. |
| Dimensions | 25 ¼" (w) x 29" (d) x 8 ¼" (h) (with tray extended) |

## Saddle Stitch Finisher (option)

| | |
|---|---|
| Type | Console finisher with dual exit trays (mounts on left side) |
| Output Trays | Upper tray: Offset stack tray<br>Lower tray: Book tray for saddle stitch |
| Output Capacity | 1000 sheets (letter/statement size) or 500 sheets (legal, ledger or letter-R size) |
| Stapling | Up to 50 sheets (letter/statement), 25 sheets (legal, ledger, mixed) |
| Output Delivery | Face down |
| Stapling Media | Plain paper, letter/legal/ledger size or mixed |
| Stapling Positions | 1 front, 1 rear, or both |
| Saddle Stitch Function | Center stitch/folding (2 staples) letter/legal/ledger paper sizes.<br>Up to 10 sets (11-15 sheets per set)/15 sets (6-10 sheets per set)/20 sets, Max. Sets (1-5 sheets per set). |
| Power Consumption | 70 W or less |
| Hole Punching | Optional hole punch unit MX-PNX5B (2 holes/3 holes) |
| Weight | Approx: 88.18 lbs. |
| Dimensions | 26" (w) x 25" (d) x 39" (h) (with tray extended) |

## 4K Stacking Finisher

| | |
|---|---|
| Type | Console stacking finisher with dual exit trays |
| Output Trays | Fixed position upper tray and offset stacking lower tray |
| Output Capacity | Upper tray: 1,550 sheets (letter size, non-stapled)<br>Lower tray: 2,450 sheets (letter size, non-stapled) |
| Stapling | Three position; Up to 50 sheets (letter size) |
| Hole punching | Optional punch unit MX-PNX6B (2 hole/3 hole) |
| Power Consumption | Approx: 140W |
| Weight | Approx: 97 lbs. |
| Dimensions | Approx: 20 ½" (w) x 25 ½" (d) x 43 ½" (h) |

## Optional Equipment

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|---|---|
| MX-DEX8 | Stand/1 x 500 Sheet Paper Drawer |
| MX-DEX9 | Stand/2 x 500 Sheet Paper Drawer |
| MX-50ABD | Rolling Cabinet Base |
| MX-LCX1 | Large Capacity Tray (requires MX-DEX8 or MX-DEX9) |
| MX-FNX9 | Inner Finisher |
| MX-FN10 | Saddle Stitch Finisher |
| MX-FN11 | 4K Stacking Finisher |
| MX-RBX3 | Paper Pass Unit (Required for MX-FN10 or MX-FN11) |
| MX-PNX1B | 3 Hole Punch Unit (for Inner Finisher) |
| MX-PNX5B | 3 Hole Punch (for Saddle Stitch Finisher) |
| MX-PNX6B | 3 Hole Punch Unit (for 4K Stacking Finisher) |
| MX-TRX2 | Exit Tray Unit |
| MX-PB10 | Printer Expansion Kit (U models) |
| MX-PB11 | Printer Expansion Kit with Hard Drive (U models) |
| MX-PKX1 | Postscript 3 Kit[1] |
| MX-PUX1 | XPS Expansion Kit (Requires MX-SHP1GBXPS) |
| MX-SHP1GBXPS | 1GB Memory Upgrade (Required for MX-PUX1) |
| MX-EBX3 | Enhanced Scanner Compression Kit (N models only) |
| MX-FWX1 | Internet Fax Kit[1] |
| MX-FXX2 | Fax Expansion Kit |
| AR-PF1 | Bar Code Font Kit[1] |
| MX-AMX1 | Application Integration Module[1] |
| MX-AMX2 | Application Communication Module[1] |
| MX-AMX3 | External Accounting Module[1] |
| MX-NSX1 | Network Scanner Expansion Kit |
| MX-FR14U | Commercial Data Security Kit for models with Hard Disk Drive |
| MX-FR15U | Commercial Data Security Kit for models w/o Hard Disk Drive |

## Supplies

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|---|---|
| MX-500NT | Black Toner Cartridge |
| MX-500NV | Black Developer |
| MX-500NR | Drum |

[1] Some features may require optional equipment.
[2] May vary depending on product configuration, machine settings and operating and/or environmental conditions.
[3] Actual transmission speed and time will vary based on line conditions
[4] Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution.

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